4.2.D. 0801020904.

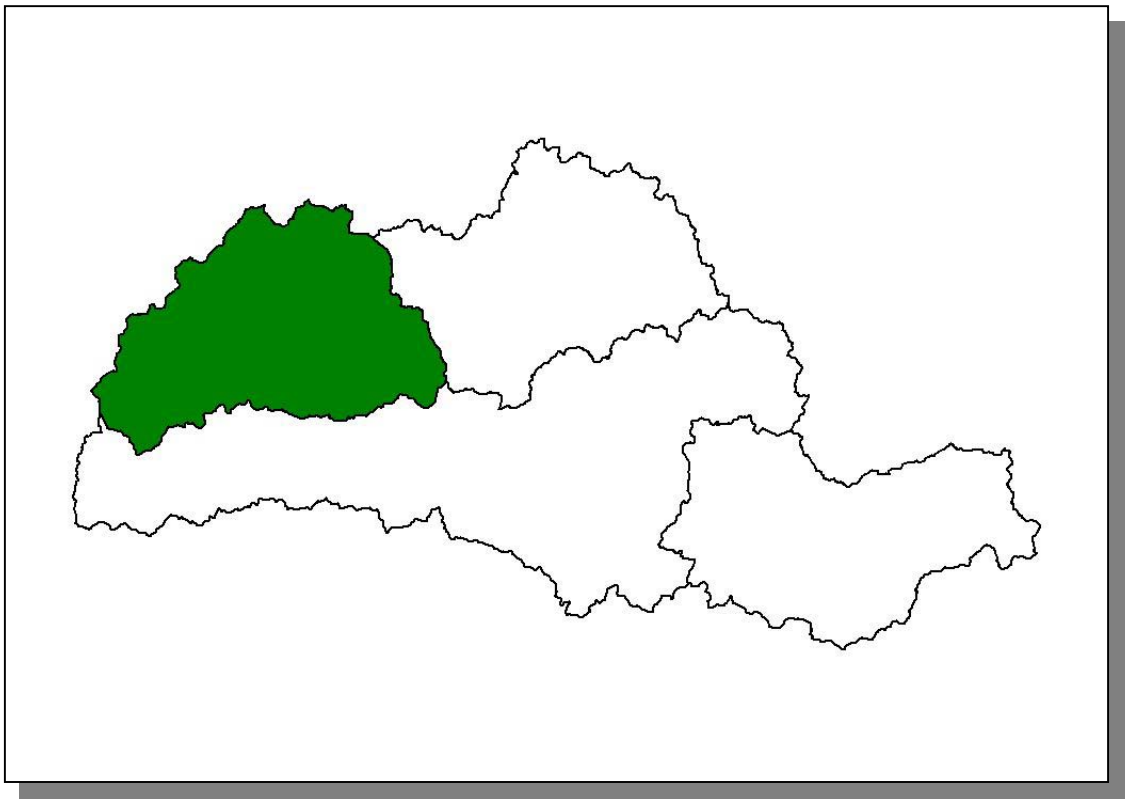

Figure 4-35. Location of Subwatershed 0801020904. *All Loosahatchie River HUC-10 subwatershed boundaries are shown for reference.*

4.2.D.i. General Description.

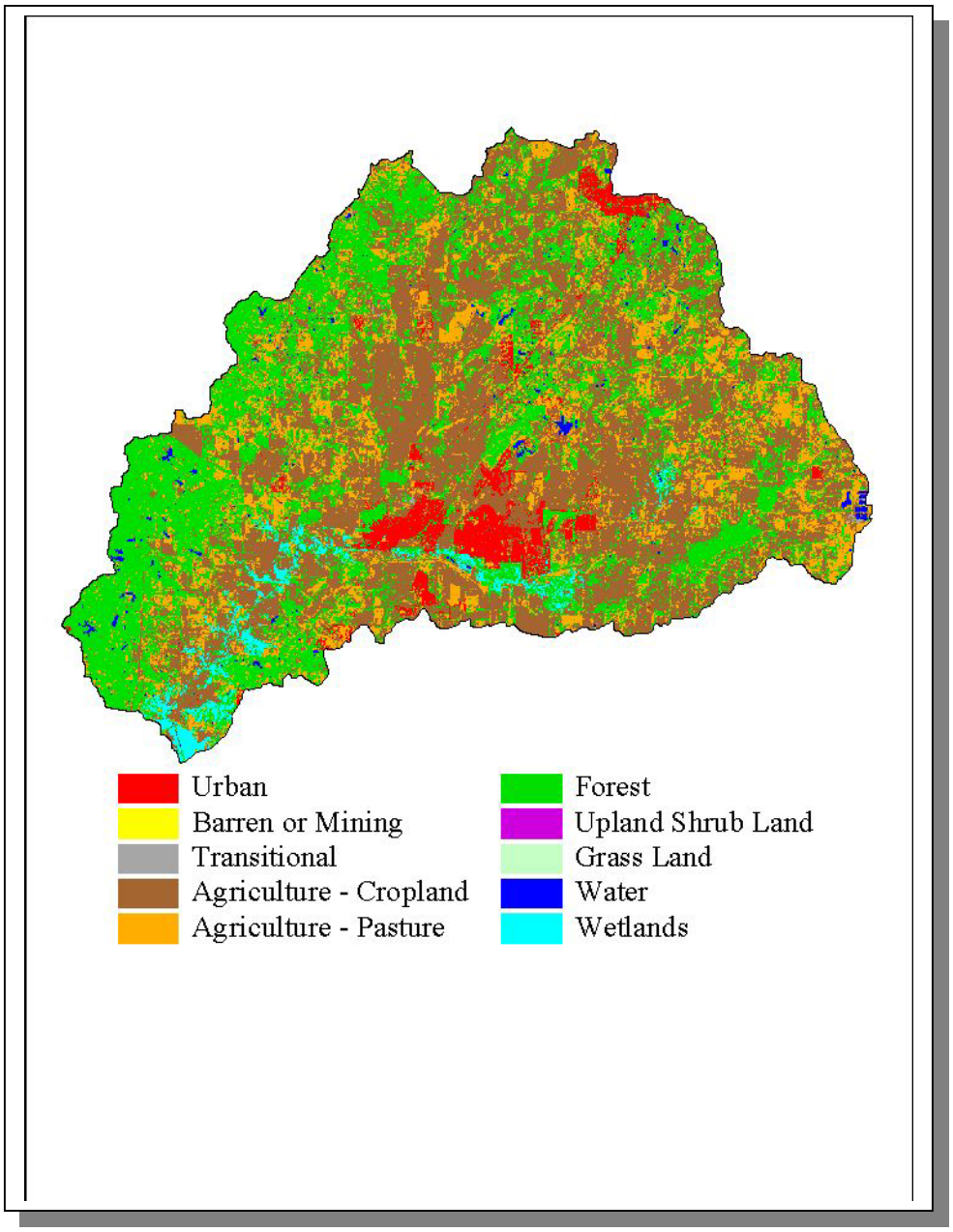

Figure 4-36. Illustration of Land Use Distribution in Subwatershed 0801020904.

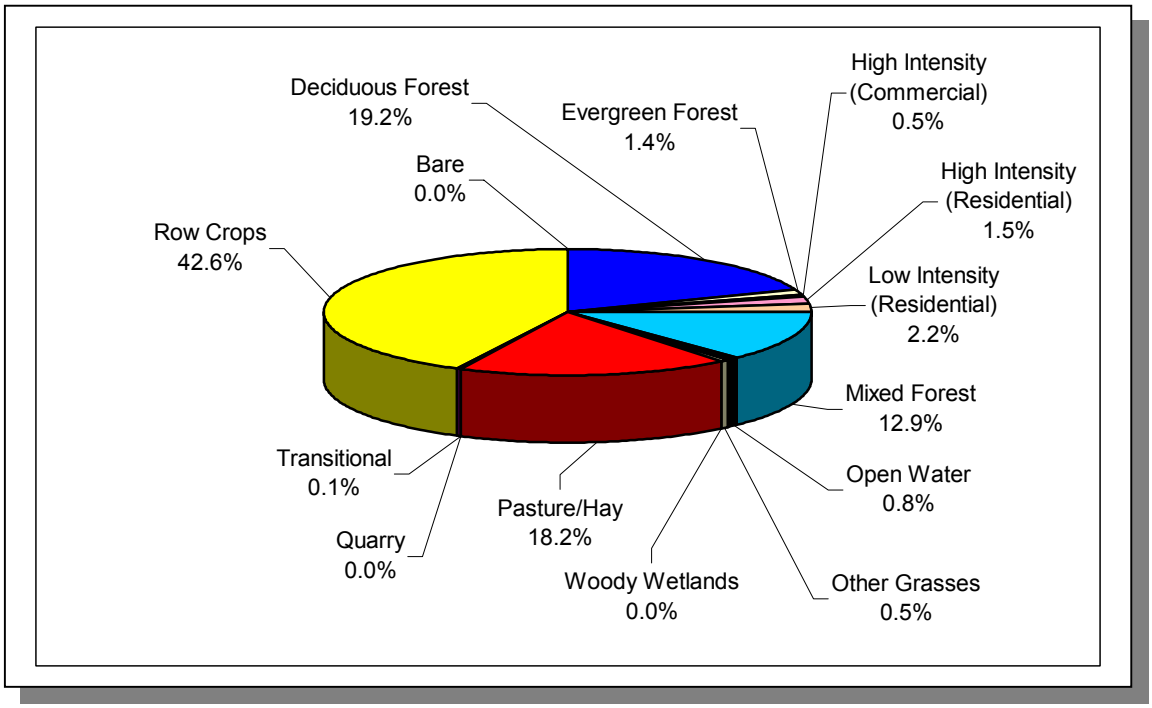

Figure 4-37. Land Use Distribution in Subwatershed 0801020904. *More information is provided in Loosahatchie-Appendix IV.*

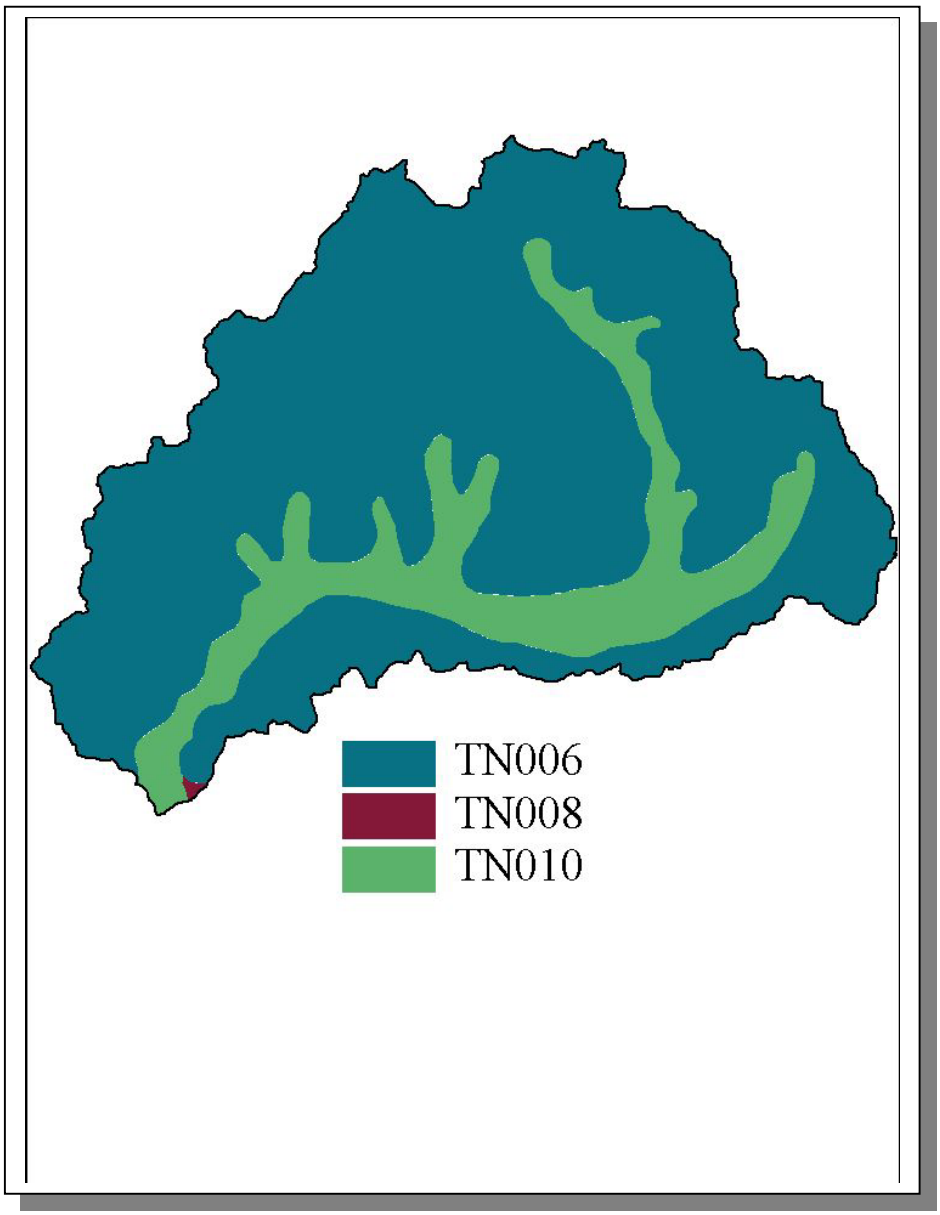

Figure 4-38. STATSGO (State Soil Geographic Database) Soil Map Units in Subwatershed 0801020904.

STATSGO MAP UNIT ID	PERCENT HYDRIC	HYDROLOGIC GROUP	PERMEABILITY (in/hour)	SOIL pH	ESTIMATED SOIL TEXTURE	SOIL ERODIBILITY
TN006	0.00	C	1.30	5.42	Silty Loam	0.48
TN008	2.00	C	1.38	5.20	Silty Loam	0.48
TN010	81.00	C	1.33	5.11	Silty Loam	0.44

Table 4-24. Soil Characteristics by STATSGO (State Soil Geographic Database) Soil Map Units in Subwatershed 0801020904. *More information is provided in Loosahatchie-Appendix IV.*

	COUNTY POPULATION			ESTIMATED POPULATION IN WATERSHED		% CHANGE
County	1990	1997 Est.	Portion of Watershed (%)	1990	1997	
Shelby	826,330	865,318	13.83	114,297	119,690	4.7
Tipton	37,568	45,986	10.07	3,784	4,632	22.4
Total	**863,898**	**911,304**		**118,081**	**124,323**	**5.3**

Table 4-25. Population Estimates in Subwatershed 0801020904.

			NUMBER OF HOUSING UNITS			
Populated Place	County	Population	Total	Public Sewer	Septic Tank	Other
Atoka	Tipton	648	280	110	169	1
Munford	Tipton	2,331	894	785	104	5
Millington	Shelby	17,866	4,440	4,269	37	134
Total		**20,845**	**5,614**	**5,164**	**310**	**140**

Table 4-26. Housing and Sewage Disposal Practices of Select Communities in Subwatershed 0801020904.

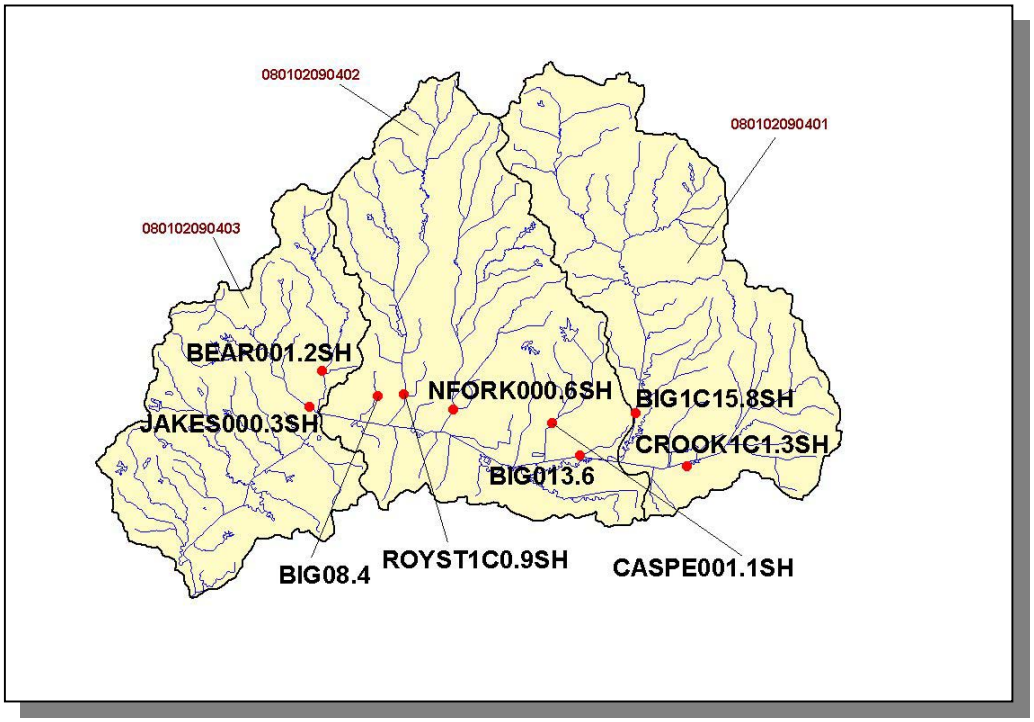

Figure 4-39. Location of STORET Monitoring Sites in Subwatershed 0801020904. *Subwatershed 080102090401, 080102090402, and 080102090403 boundaries are shown for reference. More information is provided in Loosahatchie-Appendix IV.*

4.2.D.ii. Point Source Contributions.

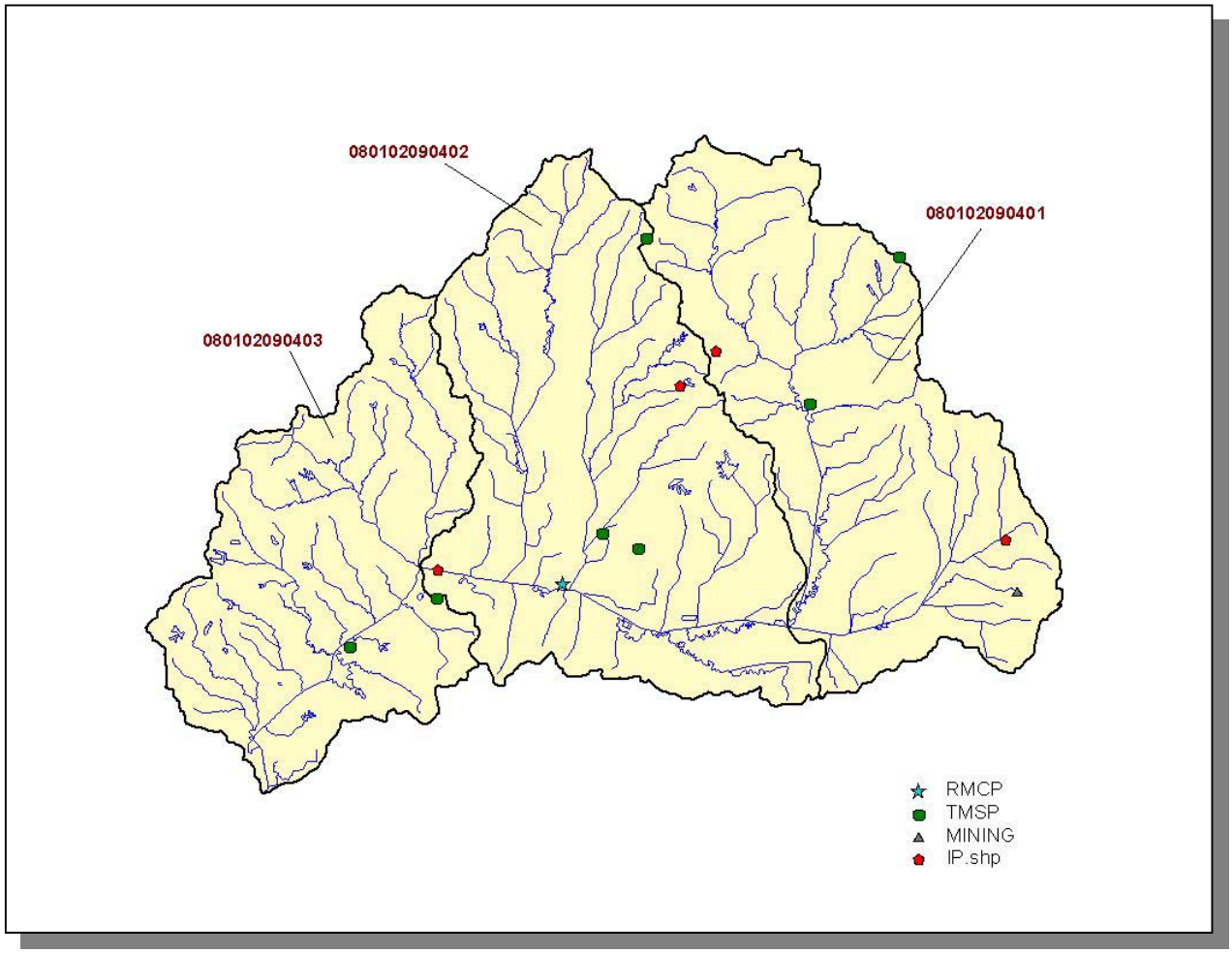

Figure 4-40. Location of Active Point Source Facilities in Subwatershed 0801020904. *Subwatershed 080102090401, 080102090402, and 080102090403 boundaries are shown for reference. More information is provided in the following charts.*

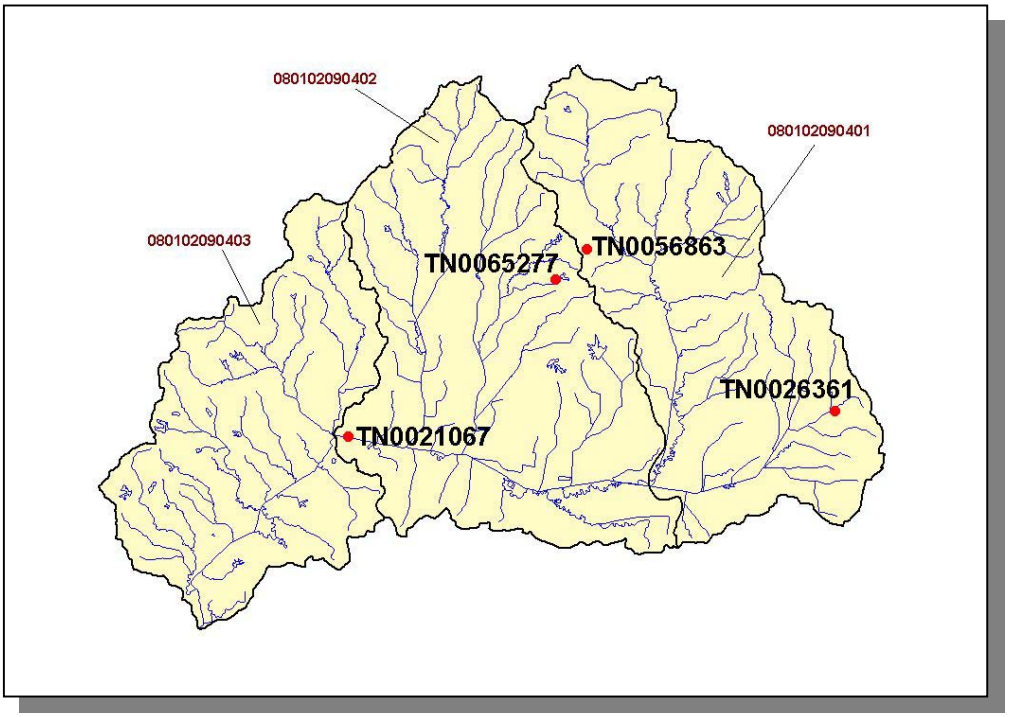

Table 4-27. Location of Active Point Source Facilities (Individual Permits) in Subwatershed 0801020904. *Subwatershed 080102090401, 080102090402, and 080102090403 boundaries are shown for reference. More information is provided in Loosahatchie-Appendix IV.*

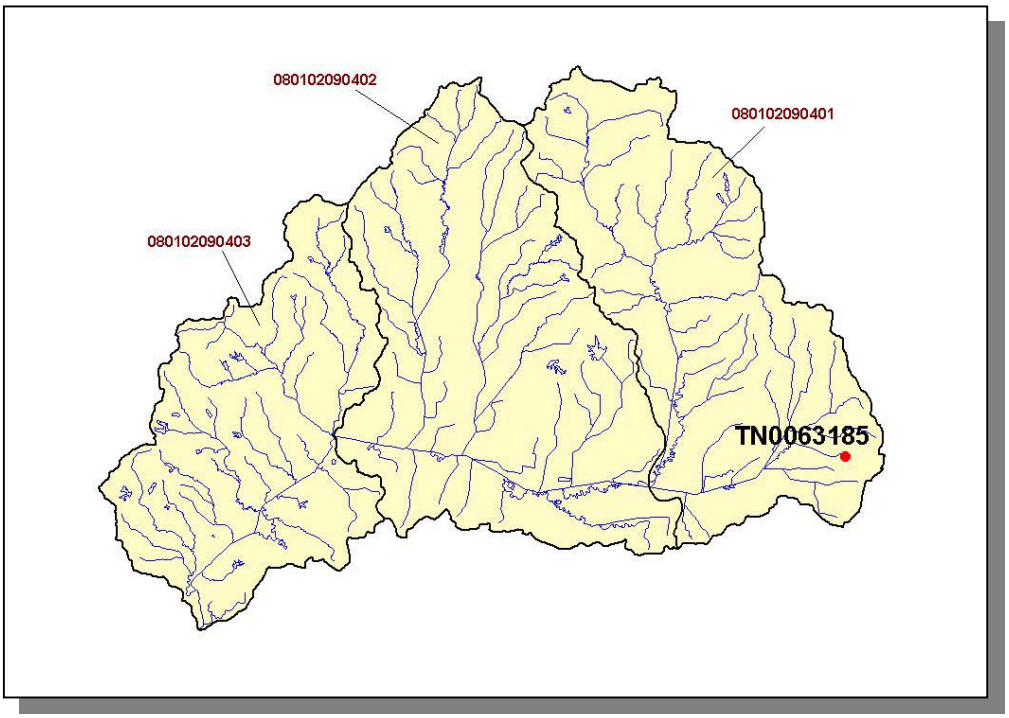

Figure 4-41. Location of Active Mining Sites in Subwatershed 0801020904. *Subwatershed 080102090401, 080102090402, and 080102090403 boundaries are shown for reference. More information is provided in Loosahatchie-Appendix IV.*

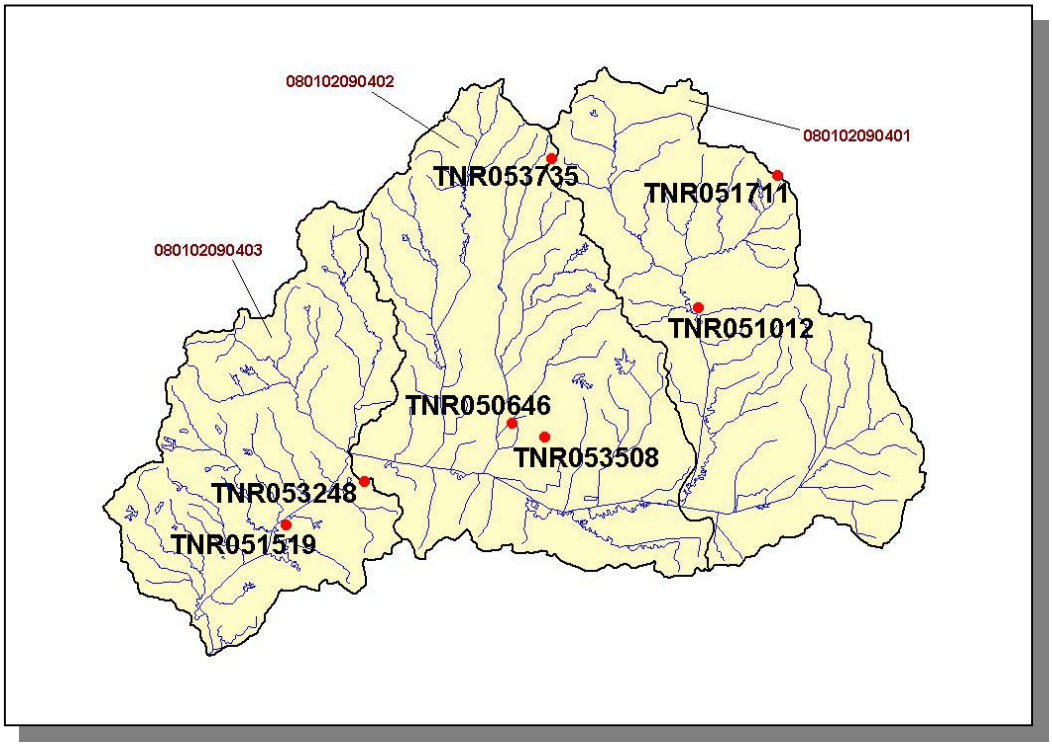

Figure 4-42. Location of TMSP Facilities in Subwatershed 0801020904. *Subwatershed 080102090401, 080102090402, and 080102090403 boundaries are shown for reference. More information is provided in Loosahatchie-Appendix IV.*

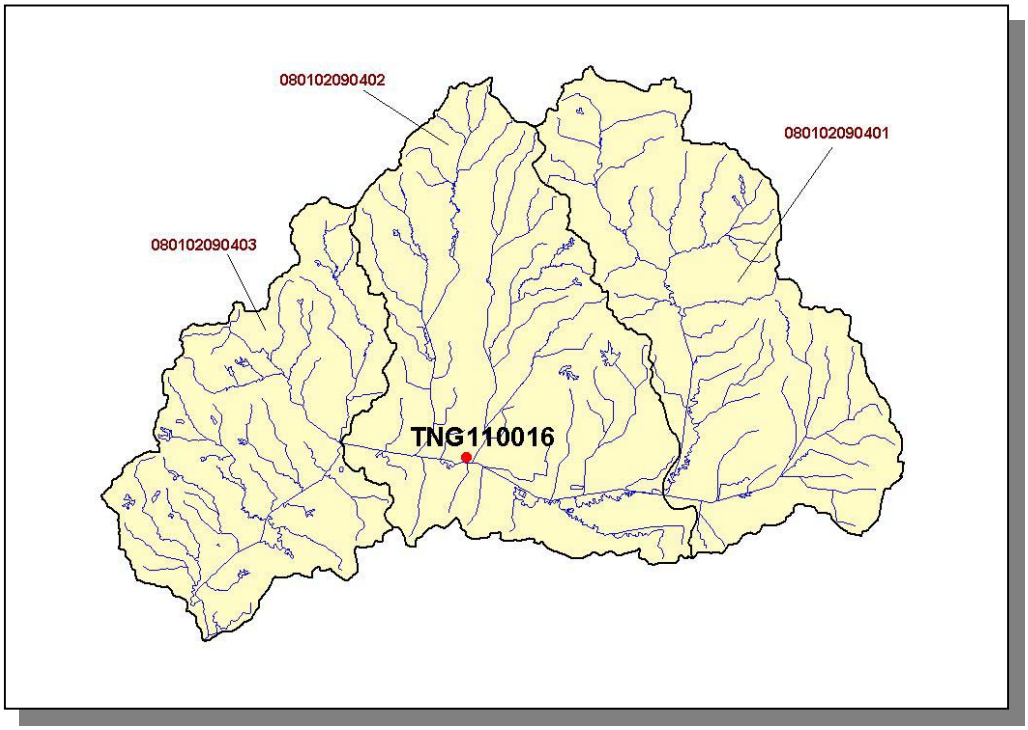

Figure 4-43. Location of Ready Mix Concrete Plants (RMCP) in Subwatershed 0801020904. *Subwatershed 080102090401, 080102090402, and 080102090403 boundaries are shown for reference. More information is provided in Loosahatchie-Appendix IV.*

4.2.A.ii.a. Dischargers to Water Bodies Listed on the 1998 303(d) List

There is one NPDES facility discharging to water bodies listed on the 1998 303(d) list in Subwatershed 0801020904:

- TN0021067 (Millington STP #2) discharges to Big Creek @ RM 6.9

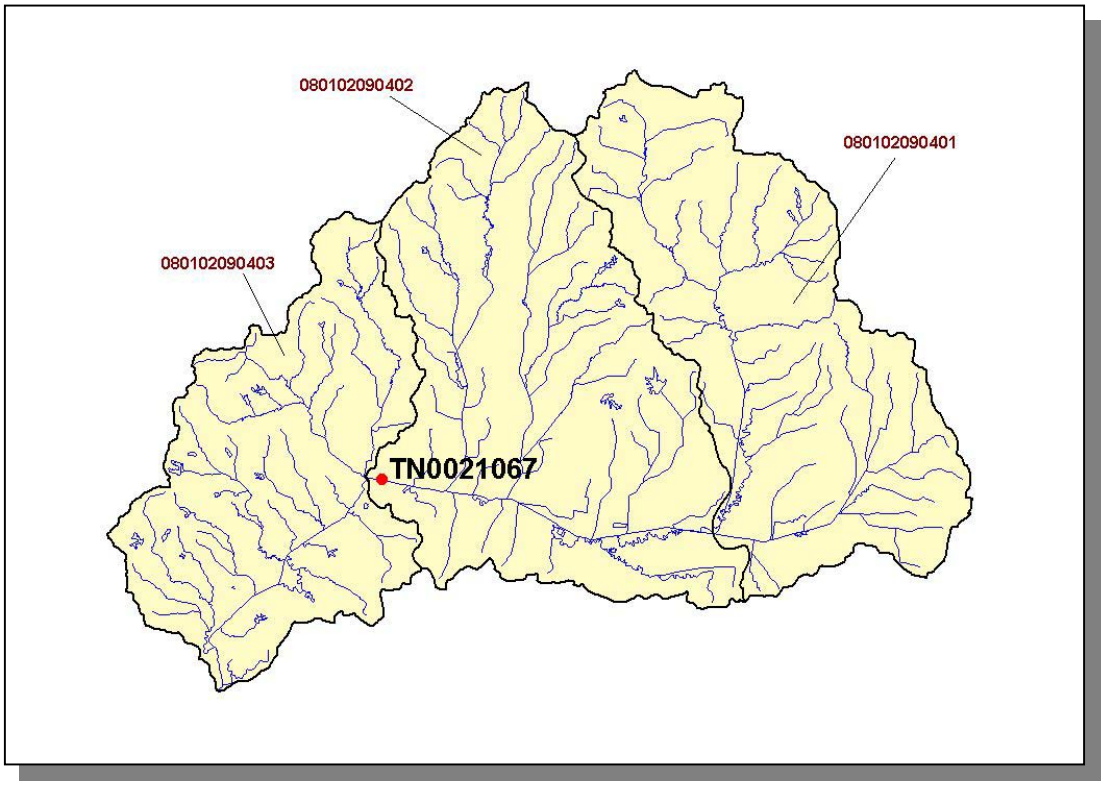

Figure 4-44. Location of NPDES Dischargers to Water Bodies Listed on the 1998 303(d) List in Subwatershed 0801020904. *Subwatershed 080102090401, 080102090402, and 080102090403 boundaries are shown for reference. More information is provided in Loosahatchie-Appendix IV.*

PERMIT #	1Q10	3Q10	7Q10	3Q20	QDESIGN
TN0021067	1.98	2.04	2.09	1.87	5.80000

Table 4-28. Receiving Stream Flow Information for NPDES Dischargers to Waterbodies Listed on the 1998 303(d) List in Subwatershed 0801020904. *Data are in million gallons per day (MGD). Data were obtained from the USGS publication Flow Duration and Low Flows of Tennessee Streams Through 1992 or from permit files.*

PERMIT #	P
TN0021067	X

Table 4-29. Monitoring Requirements for NPDES Dischargers to Waterbodies Listed on the 1998 303(d) List in Subwatershed 0801020904.

PERMIT #	$CBOD_5$	pH	WET	NH_3	FECAL	TRC	SETTLEABLE SOLIDS	TSS	DO
TN0021067	X	X	X	X	X	X	X	X	X

Table 4-30. Parameters Monitored for Daily Maximum (mg/L) Limits for NPDES Dischargers to Waterbodies Listed on the 1998 303(d) List in Subwatershed 0801020904. *$CBOD_5$, Carbonaceous Biochemical Oxygen Demand (5-Day); WET, Whole Effluent Toxicity; TRC, Total Residual Chlorine); TSS, Total Suspended Solids; DO, Dissolved Oxygen.*

4.2.D.iii. Nonpoint Source Contributions.

LIVESTOCK (COUNTS)						
Beef Cow	Milk Cow	Cattle	Chickens	Chickens Sold	Hogs	Sheep
2,126	14	3,737	11	0	128	53

Table 4-31. Summary of Livestock Count Estimates in Subwatershed 0801020904. *According to the 1997 Census of Agriculture (http://www.nass.usda.gov/census/), "Cattle" includes heifers, heifer calves, steers, bulls and bull calves; "Chickens" are layers 20 weeks and older; "Chickens Sold" are all chickens used to produce meat.*

	INVENTORY		REMOVAL RATE	
County	Forest Land (thousand acres)	Timber Land (thousand acres)	Growing Stock (million cubic feet)	Sawtimber (million board feet)
Shelby	111.6	111.6	0.0	0.0
Tipton	50.9	50.9	1.0	5.6
Total	**162.5**	**162.5**	**1.0**	**5.6**

Table 4-32. Forest Acreage and Average Annual Removal Rates (1987-1994) in Subwatershed 0801020904.

CROPS	TONS/ACRE/YEAR
Forest Land (Grazed)	0.00
Forest Land (Not Grazed)	0.00
Corn (Row Crops)	5.91
Soybeans (Row Crops)	14.00
Cotton (Row Crops)	12.36
Sorghum (Row Crops)	4.91
Wheat (Close Grown Cropland)	4.24
Grass (Hayland)	0.67
Legume (Hayland)	3.35
Grass (Pastureland)	0.50
Grass, Forbs, Legumes (Mixed Pasture)	0.46
Conservation Reserve Program Land	0.87
Other Vegetable and Truck Crop	10.38
Summer Fallow (Other Cropland)	12.43
Other Cropland not Planted	6.04
Nonagricultural Land Use	0.00
Farmsteads and Ranch Headquarters	0.52

Table 4-33. Annual Soil Loss in Subwatershed 0801020904.